

Title (en)

Traction control apparatus for vehicle

Title (de)

Antriebsschupfregelungseinrichtung eines Fahrzeugs

Title (fr)

Dispositif de contrôle d'antipatinage d'un véhicule

Publication

EP 1396402 A1 20040310 (EN)

Application

EP 03020009 A 20030903

Priority

JP 2002258614 A 20020904

Abstract (en)

A traction control apparatus for a vehicle sets an allowable slip ratio (Ss) to a constant value Shigh that is rather great (410), when the shift position of a sub-transmission is in the high-speed mode "H4", or the shift position of the sub-transmission is in the low-speed mode "L4" and the difference (DELTA Vw) between the maximum value and the minimum value among wheel speeds of each driving wheel is less than a wheel speed difference threshold value (Vref). On the other hand, when the shift position of the sub-transmission is in "L4" and the difference (DELTA Vw) is not less than the wheel speed difference threshold value (Vref), the traction control apparatus for the vehicle of the present invention sets the allowable slip ratio (Ss) to a constant value (Slow) that is smaller than the above-mentioned constant value (425). In case where the slip ratio of each driving wheel exceeds the allowable slip ratio set as described above, predetermined braking force is exerted on each driving wheel so as to place the slip ratio of each driving wheel within the allowable slip ratio. <IMAGE>

IPC 1-7

B60T 8/00; **B60K 28/16**

IPC 8 full level

B60K 28/16 (2006.01); **B60T 8/175** (2006.01)

CPC (source: EP US)

B60K 28/16 (2013.01 - EP US); **B60T 8/175** (2013.01 - EP US); **B60T 2210/16** (2013.01 - EP US); **B60T 2270/202** (2013.01 - EP US); **B60T 2270/211** (2013.01 - EP US); **B60W 2520/26** (2013.01 - EP US)

Citation (search report)

- [X] US 6269297 B1 20010731 - HOSOMI KAZUSHI [JP], et al
- [X] EP 0550997 A1 19930714 - LUCAS IND PLC [GB]
- [X] US 5850616 A 19981215 - MATSUNO KOJI [JP], et al
- [A] US 6367894 B1 20020409 - MERGENTHALER ROLF-HERMANN [DE]
- [A] US 6007454 A 19991228 - TAKAHIRA YOSUKE [JP], et al
- [A] EP 0508640 A1 19921014 - LUCAS IND PLC [GB]
- [DA] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 15 6 April 2001 (2001-04-06)

Cited by

EP2374673A4; EP2407335A3; US9145127B2; US8989969B2; US8463511B2; US8725359B2; WO2023193898A1; EP4108529A1; WO2022262937A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1396402 A1 20040310; **EP 1396402 B1 20060621**; DE 60306279 D1 20060803; DE 60306279 T2 20070531; JP 2004090886 A 20040325; US 2004041469 A1 20040304; US 6851766 B2 20050208

DOCDB simple family (application)

EP 03020009 A 20030903; DE 60306279 T 20030903; JP 2002258614 A 20020904; US 65393503 A 20030904